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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/619,827	07/20/2000	Yang Cao	Cao-21	3535
	7590 05/12/2006		EXAM	INER
HARNESS, DICKEY & PIERCE			LY, ANH VU H	
P.O. BOX 891			ART UNIT	PAPER NUMBER
RESTON, VA 20195			2616	

DATE MAILED: 05/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)
		09/619,827	CAO ET AL.
	Office Action Summary	Examiner	Art Unit
		Anh-Vu H. Ly	2616
	- The MAILING DATE of this communication ap	pears on the cover sheet with t	the correspondence address
	- Dambe		
WHIC - Exter after - If NO - Failu	PREMED STATUTORY PERIOD FOR REPL DREVER IS LONGER, FROM THE MAILING D sions of time may be available under the provisions of 37 CPT. 1 SIX (6) MONTHS from the malling date of this communication, period for reply is specified above, the maximum statutory period to reply with the set or extended period for reply will, by statut epyl received by the Office later than three months after the maller of petent term adjustment. See 37 CPR 1.704(b).	136(a). In no event, however, may a reply will apply and will expire SIX (6) MONTHS	be timely filed  S from the mailing date of this communication.
atus			
1)	Responsive to communication(s) filed on 17.	January 2006.	
		ie action is non-IINAL	
3)		ance except for formal matters	s, prosecution as to the ments is
<u></u> ,	closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 1	11, 453 O.G. 213.
isposit	ion of Claims		
4)[🛛	Claim (a) 1 4 9 11 14-17 20-24 and 27-30 is/s	are pending in the application.	
/2_3	4a) Of the above claim(s) is/are withdr	awn from consideration.	
5)[🛛	Claim(s) 20-24 is/are allowed.		
6)[X]	Claim(s) 1.5-8.11 and 15-17 is/are rejected.		
710	Claim(s) 1 4-8 11 14-17 and 27-30 is/are obj	ected to.	
8)[	Claim(s) are subject to restriction and	/or election requirement.	
	tion Papers		
9)[	The specification is objected to by the Exami	ner.	N - Everiner
10)	- : : : : : : : : : : : : : : : : : : :	ccented or b)   objected to b	ry the Examilier.
		action is required if the drawings	5) 15 00 60 60 10. 000 01 0
11)	Replacement drawing sheet(s) including the con The oath or declaration is objected to by the	Examiner. Note the attached	Office Action of John 1 , 3-162.
Priority	under 35 U.S.C. § 119		
12)[	Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C. §	119(a)-(d) or (t).
	N All b) Some * c) None of:		
	← □ Continue of the priority documents  Output  Description  Output	ents have been received.	aplication No
	Certified copies of the priority docum	ents have been received in A	received in this National Stage
	Copies of the certified copies of the profits documents and the certified copies of the profits and the profits are copies.	priority documents have been	1000,703 #1 #10 7 10-1-1-
	application from the International But	reau (FC   Rule   1 .2(d)).	received.
	* See the attached detailed Office action for a	list of the certified copies flot	
Attachn	nent(s)		Cumman (PTO-413)
1) 🔲 N	otice of References Cited (PTO-892)	Paner Not	Summary (PTO-413) s)/Mail Date
2)   N	office of Draftsperson's Patent Drawing Review (PTO-948 Iformation Disclosure Statement(s) (PTO-1449 or PTO/Staper No(s)/Mail Date	) —	Informal Patent Application (PTO-152)
ı	and Trademark Office		Part of Paper No./Mail Date 200605

Art Unit: 2616

#### DETAILED ACTION

### Response to Amendment

1. This communication is in response to applicant's amendment filed January 17, 2006.

Claims 1, 4-8, 11, 14-17, 20-24, and 27-30 are pending.

### Claim Objections

 Claims 1, 4-8, 11, 14-17, and 27-30 are objected to because of the following informalities:

With respect to claim 1, in line 6, "\_traffic" is misspelled.

With respect to claims 11 and 27, in lines 4 and 6, "circuit traffic" should be changed to -circuit switched traffic--.

Claims 4-8, 14-17, 28-30 are automatically objected to as they depend upon objected independent claims 1, 11, and 27.

Appropriate correction is required.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Application/Control Number: 09/619,827 Art Unit: 2616

Claims 1, 5-8, 11, and 15-17 are rejected under 35 U.S.C. 102(e) as being anticipated by
 Shimbashi et al (US Patent No. 6,798,779 B1). Hereinafter, referred to as Shimbashi.

With respect to claim 1, Shimbashi discloses a hybrid telecommunications switch apparatus (Fig. 4) comprising:

one or more circuit switch fabrics (Fig. 4, VT switching module 24); one or more packet switch fabrics (Fig. 4, ATM switching module 25); a controller (Fig. 4, centralized control module 32) configured to,

examine a SONET/SDH path overhead byte to determine which of said circuit switch fabrics or packet switch fabrics to route traffic to (Figs. 6 and 18, POH of signal must be extracted to locate ATM, IP, or DS1 traffic);

dynamically allocate circuit switch resources to ATM and IP traffic in order to route such traffic to the packet switch fabric based on said examination (col. 6, lines 32-34, if the signal includes ATM cells, it is transmitted to the shared inter-module interfaces 27-1 through 27-n, which perform ATM switching. Herein, shared inter-module interfaces 27-1 through 27-n are circuit switch resources); and

to route telecommunications traffic to one of the said circuit or packet switch fabrics based on said examination (col. 6, lines 22-34, STS switching module 23 switches the signal according to the trigger information if the signal requires to be switched, e.g., to VT or ATM switching module).

Art Unit: 2616

With respect to claims 5-6, Shimbashi discloses that wherein the circuit switch fabric is synchronous transport signal (STS) crossconnect and wherein the packet switch fabric is configured to switch IP or ATM traffic (Fig. 4).

With respect to claim 7, Shimbashi discloses a plurality of circuit switch fabrics (Fig. 4, VT switching modules 24 and 24').

With respect to claim 8, Shimbashi discloses that the controller is configured to examine a POH byte associated with received traffic and to thereby determine whether the traffic is ATM, IP, or STM traffic (Figs. 6 and 18, POH of signal must be extracted to locate ATM, IP, or DS1 traffic).

With respect to claim 11, Shimbashi discloses a method of switching telecommunications traffic in a hybrid switch including a circuit switch fabric (Fig. 4, element 24), a packet switch fabric (Fig. 4, element 25), and a controller (Fig. 4, element 32), the method comprising the steps of:

- a) provisioning the circuit switch fabric for IP, ATM, and circuit switch traffic (Fig. 4, centralized control module 32),
- b) examining a SONET/SDH path overhead byte to determine whether received traffic is IP, ATM, or circuit switch traffic (Figs. 6 and 18, POH of signal must be extracted to locate ATM, IP, or DS1 traffic);

Art Unit: 2616

c) dynamically allocating circuit switch resources to ATM and IP traffic in order to route such traffic to the packet switch fabric based on said examination (col. 6, lines 32-34, if the signal includes ATM cells, it is transmitted to the shared inter-module interfaces 27-1 through 27-n, which perform ATM switching. Herein, shared inter-module interfaces 27-1 through 27-n are circuit switch resources); and

d) switching the received traffic in the packet or circuit switch fabrics in response to the examination step b (col. 6, lines 22-34, STS switching module 23 switches the signal according to the trigger information if the signal requires to be switched, e.g., to VT or ATM switching module).

With respect to claims 15-16, Shimbashi discloses that the controller directing ATM traffic to a packet switch fabric and directing IP traffic to a packet switch fabric (col. 6, lines 22-34, STS switching module 23 switches the signal according to the trigger information if the signal requires to be switched, e.g., to VT or ATM switching module).

With respect to claim 17, Shimbashi discloses that the controller directing traffic that is neither ATM or IP traffic to the circuit switch fabric (col. 6, lines 22-34, STS switching module 23 switches the signal according to the trigger information if the signal requires to be switched, e.g., to VT or ATM switching module).

Art Unit: 2616

### Allowable Subject Matter

4. Claims 4 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 20-24 are allowed. Claims 27 through 30 contain allowable subject matter but are
objected to for minor informalities.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art does not teach or fairly suggest examine C2 overhead byte to determine which of said circuit switch fabrics or packet switch fabrics to route traffic to, as specified in independent claims 20 and 27.

## Response to Arguments

 Applicant's arguments filed January 17, 2006 have been fully considered but they are not persuasive.

Applicant argues in page 7 that Shimbashi does not disclose allocating circuit switch resources to ATM and IP traffic in order to route such traffic to a packet switch fabric. Examiner respectfully disagrees. Shimbashi discloses (col. 6, lines 32-34) that if the signal includes ATM cells, it is transmitted to the shared inter-module interfaces 27-1 through 27-n, which perform ATM switching. Herein, shared inter-module interfaces 27-1 through 27-n are circuit switch resources.

Art Unit: 2616

#### Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh-Vu H. Ly whose telephone number is 571-272-3175. The examiner can normally be reached on Monday-Friday 7:00am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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